

My journey taking on the Cloud Resume Challenge

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Cassini

Contents

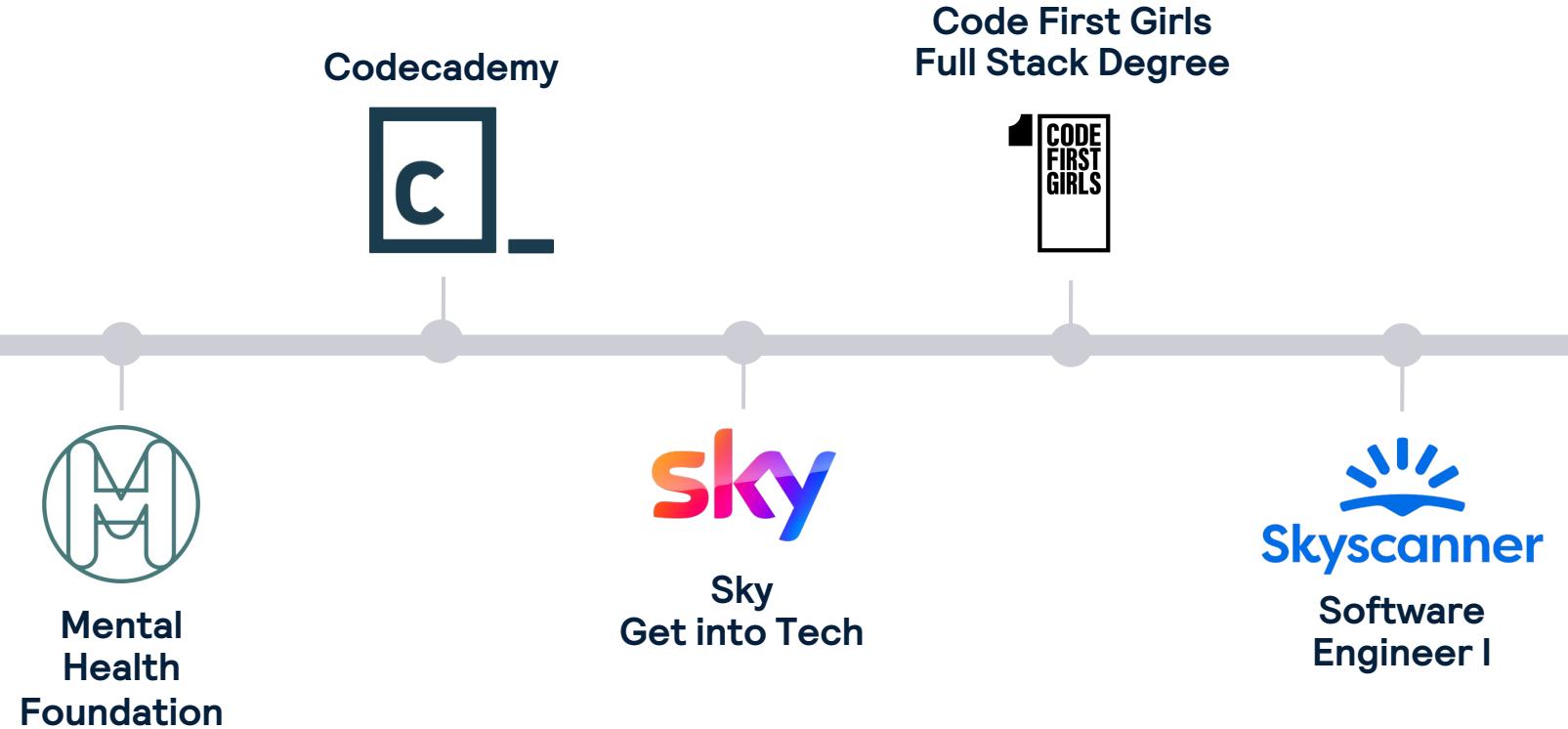
- 1. Why the Cloud Resume Challenge?**
- 2. How did I do it?**
- 3. What did I learn?**
- 4. Would I recommend?**
- 5. What now?**

Why the Cloud Resume Challenge?

A little bit about me



My journey taking on the Cloud Resume Challenge



I had learned a lot, but there were some gaps

General Computer Science & Software Dev Approaches & Concepts

- Agile & Scrum
- UX & UI Design
- Software Dev Life Cycle
- Time & Space Complexity
- OOP
- Version Control with Git

Front End & Back End Languages & Frameworks

- Python & Flask
- JavaScript & React
- HTML/CSS & Bootstrap
- NodeJS
- Firebase
- SQL

CI/CD and IaC



Cloud & AWS



[Take The Challenge](#)[Get The Book](#)[Sprints](#)[Stories](#)[Blog](#)

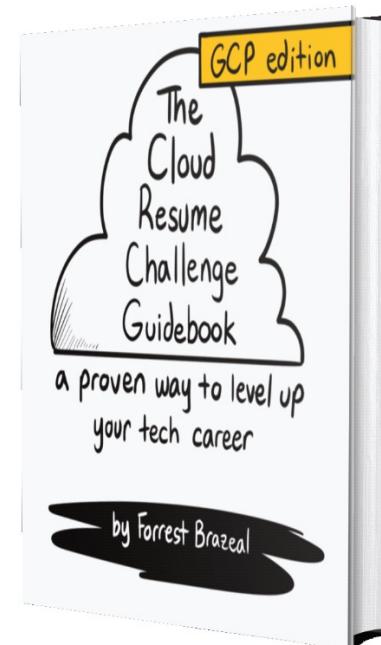
Cloud Resume Challenge
By Forrest Brazeal

A proven way to advance your cloud career.

"The Cloud Resume Challenge was one of the best decisions I've ever made."

-Stephanie K, from bank clerk to Associate Cloud Engineer in 3 months

Try the popular 16-step project that takes you from certified to hired in cloud - fast.

[Get the ebook](#)[Join the Discord](#)

How did I do it?

How did I do it?

AWS Sandbox Account

Resources deployed in the Sandbox account

Tailored Approach for Skyscanner

Replaced suggested use of AWS SAM with CloudFormation, and GitHub Actions with Drone and Slingshot

AWS Console vs IaC

First attempt of challenge was in AWS console, second attempt purely as Infrastructure as Code

JIRA Epics

Created two JIRA epics with tickets for each step and pulled these into squad sprints

1

HTML & CSS Web Page

The screenshot shows a code editor interface with a dark theme. The left sidebar lists files and folders under 'EQ-CLOUD-RESUME-CFN' including 's3-website', 'eqresume.css', 'eqresume.html', 'ProfileImageElidh...', 'website-screenshots', '.catalog.yml', '.drone.yml', '.gitignore', '.slingshot-infra.yml', 'cloudresume-cfnsta...', and 'README.md'. The main editor area displays the 'eqresume.html' file. The code includes an HTML structure with a grid container, a header section with a welcome message and bio, and an 'Education' section with a table. The status bar at the bottom shows 'Ln 26, Col 2' and other file details.

```
eqresume.html -- eq-cloud-resume-cfn

EXPLORER      ...  < eqresume.html x  # eqresume.css
EQ-CLOUD-RESUME-CFN
s3-website > < eqresume.html > html > body > div.grid-container > div.item3
1   <!DOCTYPE html>
2   <html>
3   |
4   <head>
5     <link rel="stylesheet" href="eqresume.css">
6     <meta charset="UTF-8">
7   </head>
8
9   <body>
10    <div class="grid-container">
11      <!--Header-->
12      <div class="item1">
13          <h3>Hello! &#128075;</h3>
14          <p>I am an ambitious, creative & dynamic Software Engineer. I have a bunch of transferable skills developed over a decade of experience in the charity and public sector in project management, education and international development. I recently made the transition into the technology industry following completion of the Code First Girls Full Stack Degree.</p>
15          <p>This is my AWS hosted resume as part of the Cloud Resume Challenge. Check out my recent education and follow the link to my LinkedIn profile to find out more.</p>
16      </div>
17      <!--Education-->
18      <div class="item3">
19          <h3 style="text-align:center;">Education</h3>
20          <table>
21              <tr>
22                  <th>Educational Body</th>
23                  <th>Qualification</th>
24                  <th>Grade</th>
25                  <th>Date</th>
26              </tr>
27              <tr>
28                  <td>University of Edinburgh</td>
29                  <td>Software Engineering MSc</td>
30                  <td>2:1</td>
31                  <td>2018 - Present</td>
32              </tr>
33          </table>
34      </div>
35  </div>
36
37
38
39
40
41
42
43
```

2

CloudFormation Stack

CloudFormation
template written and
deployed using Drone
and Slingshot to
create a Stack with
the required
resources

```
! cloudresume-cfnstack.yaml ×  
! cloudresume-cfnstack.yaml > {} Resources > {} eqS3Bucket > {} Properties  
1   AWSTemplateFormatVersion: '2010-09-09'  
2   Description: AWS CloudFormation template for creating Cloud Resume Challenge resources  
3  
4   Parameters:  
5     S3BucketName:  
6       Default: skyscanner-sandbox-eqcloudresume  
7       Description: s3 bucket name for static website  
8       Type: String  
9  
10  Resources:  
11    eqS3Bucket:  
12      Type: AWS::S3::Bucket  
13      Properties:  
14        AccessControl: BucketOwnerFullControl  
15        BucketName: !Ref S3BucketName  
16        PublicAccessBlockConfiguration:  
17          BlockPublicAcls: False  
18          BlockPublicPolicy: False  
19          IgnorePublicAcls: False  
20          RestrictPublicBuckets: False  
21        Tags:  
22          - Key: project  
23            Value: eq-cloudresume  
24          - Key: contact  
25            Value: eilidh.quinn@skyscanner.net  
26        WebsiteConfiguration:  
27          IndexDocument: eqresume.html  
28  
29    eqS3BucketPolicy:  
30      Type: AWS::S3::BucketPolicy  
31      Properties:  
32        Bucket: !Ref S3BucketName  
33        PolicyDocument:
```

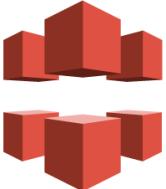
2

CloudFormation Stack



S3 Bucket & Bucket Policy

Website files deployed to S3 bucket and deployed as a static website



CloudFront Distribution

S3 Bucket configured with CloudFront for high performance delivery of content and for HTTPS



Route53 Record

DNS Domain Name set up via Route53 which points to the CloudFront Distribution



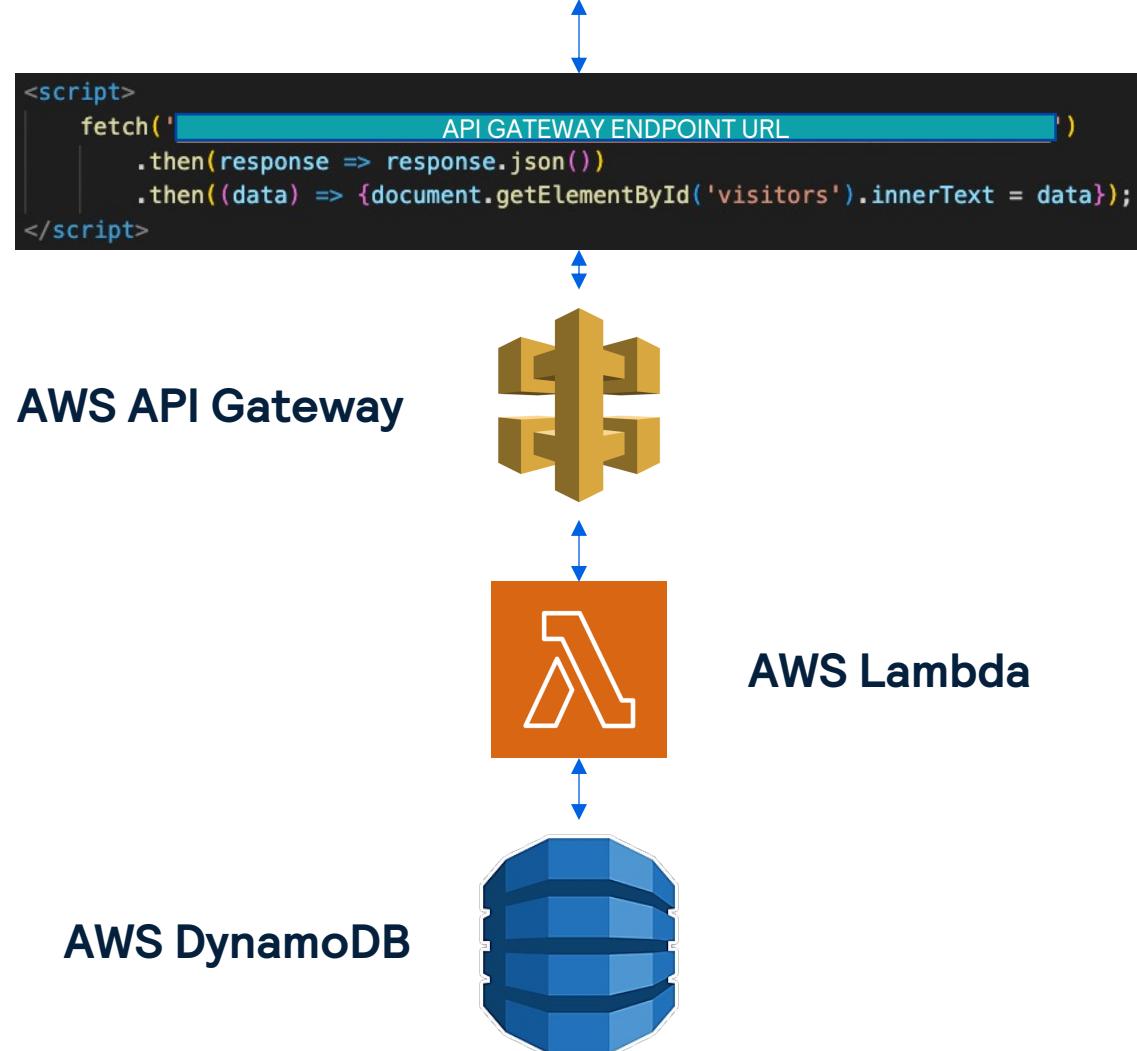
DynamoDB Table

Table holding number of website visitors

3

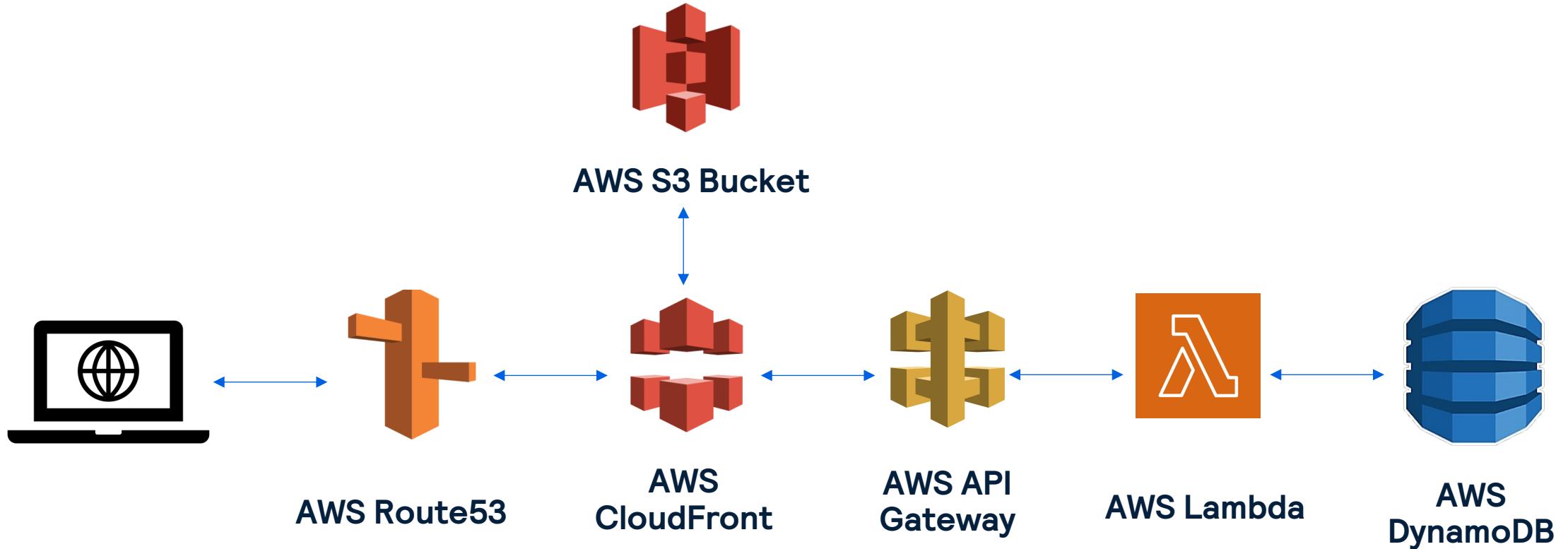
Visitor Counter

16 Site Visitors



How did I do it?

Overall Site Architecture



Let's see it in action



What did I learn?

If you created your resources in CloudFormation / Infrastructure as Code, please leave the AWS Console alone.

2022-09-21 14:12:59 UTC+0100	eq-cloudresume-cfn	✖ UPDATE_ ROLLBACK_I N_PROGRES S	The following resource(s) failed to update: [eqRoute53Records].
2022-09-21 14:12:58 UTC+0100	eqRoute53Re cords	✖ UPDATE_ FAILED	[Tried to delete resource record set [name='eqcloudresume.skyscannerlabs.net.', type='A'] but it was not found, Tried to delete resource record set [name='eqcloudresume.skyscannerlabs.net.', type='AAAA'] but it was not found]

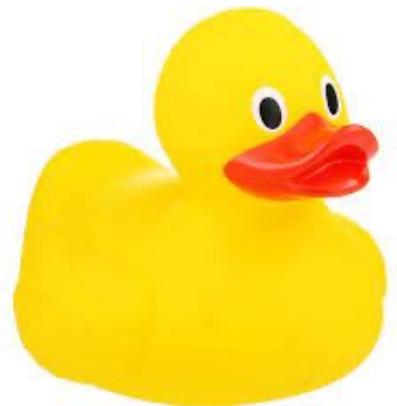
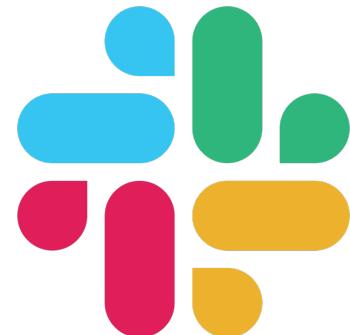
**Debug,
Debug,
Debug again.
Then phone a friend.**



Google



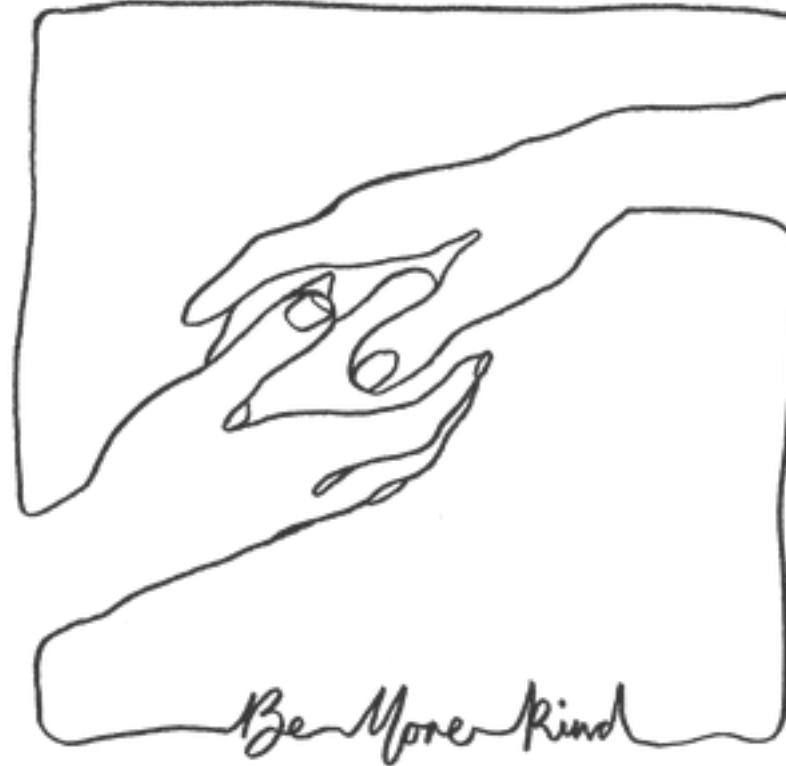
YouTube



aws

Confluence

**Be kind to yourself, this
stuff isn't easy.**



~~The Corrs~~
**CORS will get you
every time**



Cross Origin Resource Sharing

Remember those gaps that needed plugged?

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- UX & UI Design
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Front End & Back End Languages & Frameworks

- Python & Flask
- JavaScript & React
- HTML/CSS & Bootstrap
- NodeJS
- Firebase
- SQL

CI/CD and IaC

- Drone
- Slingshot
- Mshell
- CloudFormation
- GitHub Actions



Cloud & AWS

- AWS
 - S3
 - CloudFront
 - API Gateway
 - Lambda
 - DynamoDB
 - Certificate Manager





If you learn by ‘doing’ and want to brush up on your AWS, IaC or Skyscanner CI/CD pipeline skills, I would 10/10 recommend.

What now?

A photograph of a beach at sunset. The sky is filled with warm, orange and yellow hues, with a few wispy clouds. In the foreground, a child stands on the sandy beach, looking towards the ocean. Several other people are in the water, some swimming and some sitting on the shore. The ocean waves are crashing onto the beach. A large, semi-transparent white text "Thank you" is overlaid on the left side of the image.

Thank you